Neutrino beam R&D generic issues Milind Diwan/Derek Lowenstein diwan@bnl.gov, lowenstein@bnl.gov

- SC LINAC cost minimization
- Some accelerator physics issues such as controlling transition and emittance issues.
- FFAG design and possible electron model
- Electron cloud physics
- Horn design for low energies and high power.
- Proton target design integrated into horn design.
- Hill based neutrino beam design including shielding design and civil construction.
- All R&D related to the large detector.

Neutrino beam AGS specific issues

- Beam loss simulations for accelerator complex. reducing losses at injection and extraction.
- Electrical engineering aspects of powering rapid cycling AGS.
- Powering AGS RF systems for rapid cycling.
- Minimizing cost of beam transport to target. Simulating beam transport.
- Package for BNL stake-holders concerning environmental impact.
- Update technical, cost, and schedule aspects of CDR.